ORBITVU
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Indexing head ORBITVU SPIDER

User's manual

Spis treści

Introduction

Thank you for purchasing ORBITVU SPIDER – heavy duty universal indexing head.

ORBITVU SPIDER was designed for 360° product photography for loads up to 250 kg. It is controlled with PC or MAC with ORBITVU EDITOR software. Please, read the manual before you start using it.

ORBITVU SPIDER is available in two basic configurations:

- • ORBITVU MAXI – platform up to 250 kg

- • ORBITVU MIDI – turntable up to 40 kg
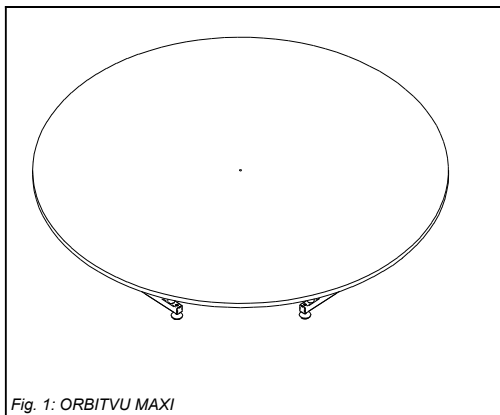
Fig. 1: ORBITVU MAXI
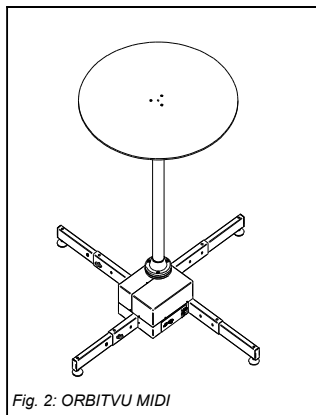
Fig. 2: ORBITVU MIDI

ORBITVU SPIDER MAXI package contents

1. Wing knob M8 – 8 pcs
2. Platform distance pins – 4 pcs
3. T-shaped leg wheels – 8 pcs
4. T-shaped leg feets – 8 pcs
5. Power supply cable with safety switch, 5 m – 1 pcs
6. USB cable for ORBITVU SPIDER, 5m – 1 pcs
7. USB cable for your camera, 5m – 1 pcs
8. T-shaped llegs - 4 pcs
9. Platform telescopic arms - 4 pcs
10. ORBITVU SPIDER base – 1 pcs
11. 180 cm platform – 1 pcs
12. DVD containing ORBITVU EDITOR software and manuals
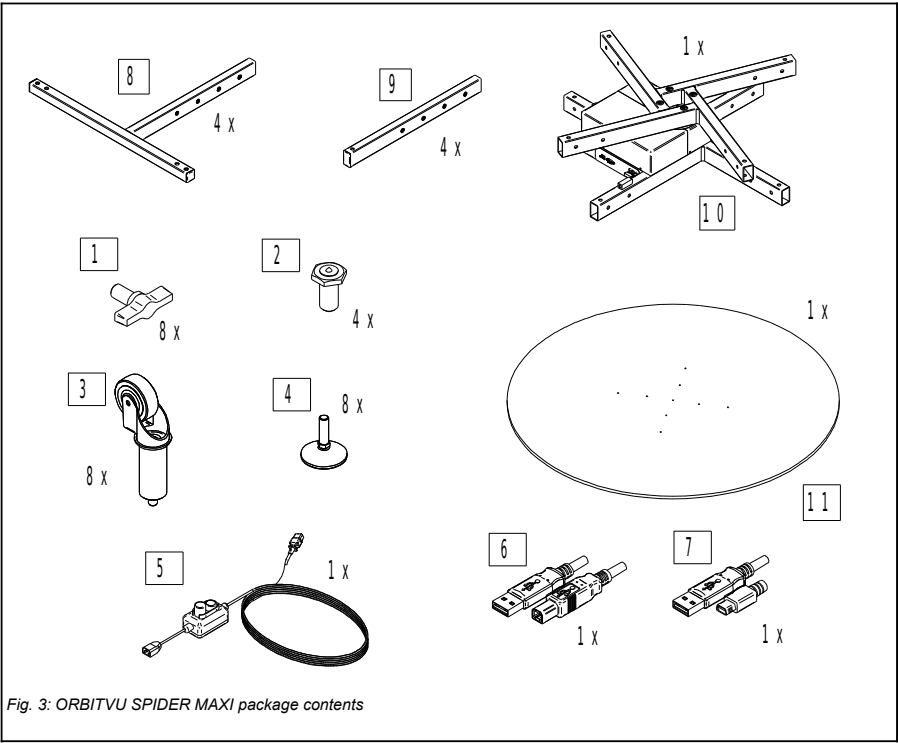
Fig. 3: ORBITVU SPIDER MAXI package contents

ORBITVU MAXI assembly

1, For each T-shaped leg (Fig. 3-8),   screw-in 2 feet (Fig. 3-4) and 2 wheels (Fig. 3-3)
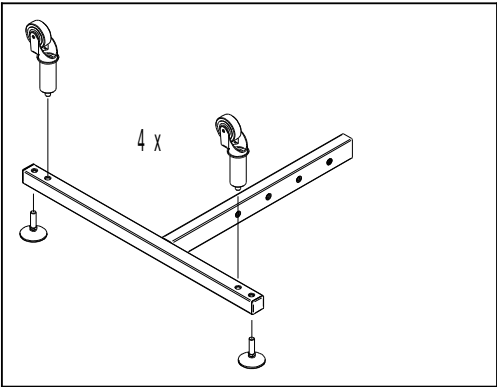
Fig. 4: T-shaped legs assembly

2. Insert T-shaped lags to ORBITVU SPIDER base tubes, as shown in Fig. 5. Lock with wing knobs.
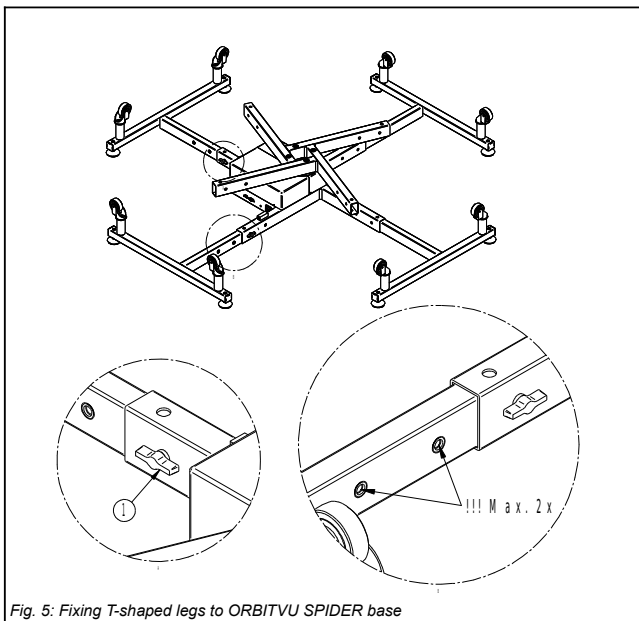
Fig. 5: Fixing T-shaped legs to ORBITVU SPIDER base

3. Insert platform telescopic arms into top ORBITVU SPIDER base tubes as shown in Fig. 6 . Lock with wing knobs (Fig. 6-1). Fix 4 platform distance pins (Fig. 6-2).

4. Level ORBITVU SPIDER using bubble levellers and screwing/unscrewing feet (Fig. 6.- 3).

5. Connect USB cable into connector found on ORBITVU SPRIDER front panel (Fig. 19 - 3, 6). If you plan to use ORBITVU SPRIDER to release shutter in your camera, connect shutter releas cable now (Fig. 19 - 2)

Fig. 6: Installation of platform telescopic arms
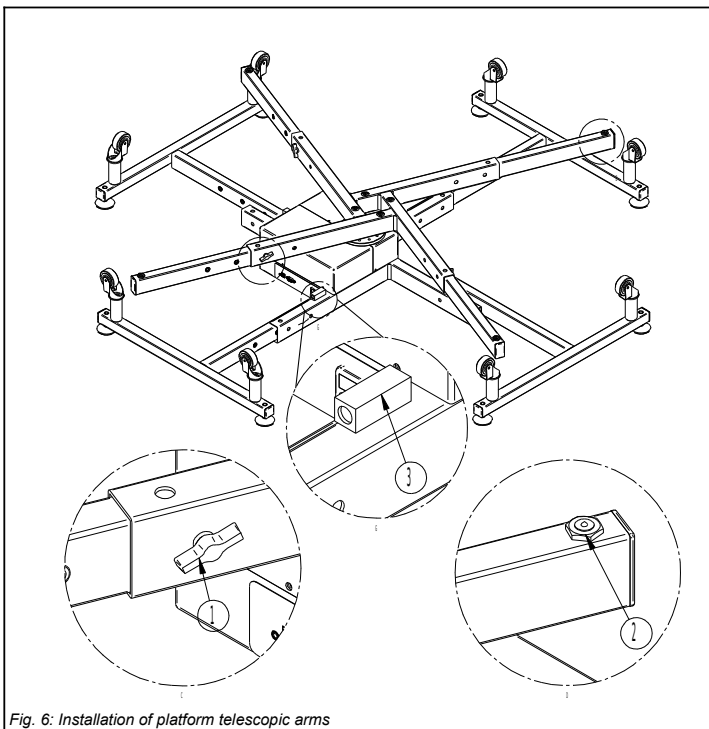
6. Place platform on top of the ORBITVU SPRIDER – use positioning bars to properly align it in the centre – see Fig. 7 i Fig. 8

Fig. 7: ORBITVU SPIDER MAXI top view

Fig. 8: Positioning bars on platform bottom
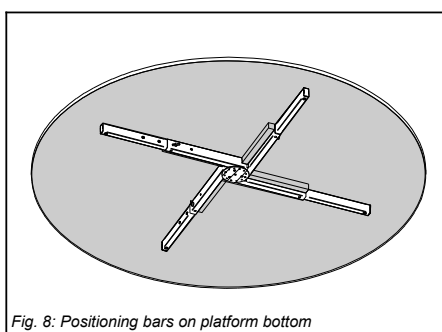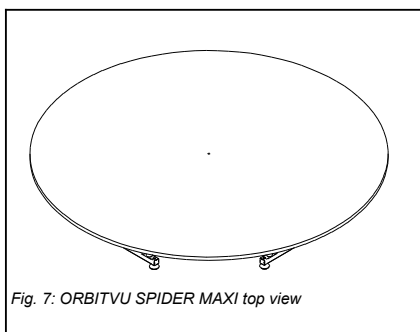
7.   After proper assembly between each wheel and platform, there should be a gap of 4-5 mm..

Fig. 9: Widok z boku - dystans pomiędzy platformą a kółkiem
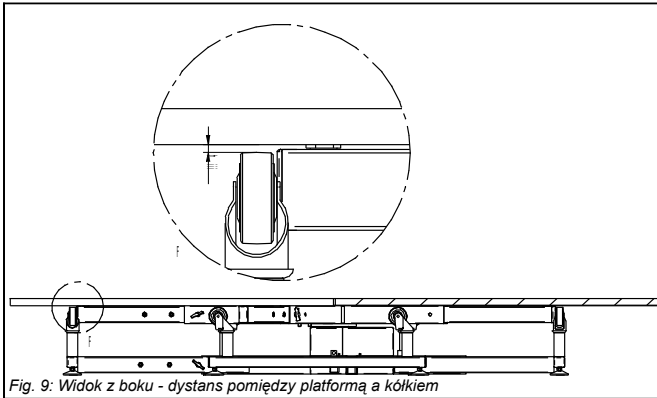
ORBITVU SPIDER MIDI package contents
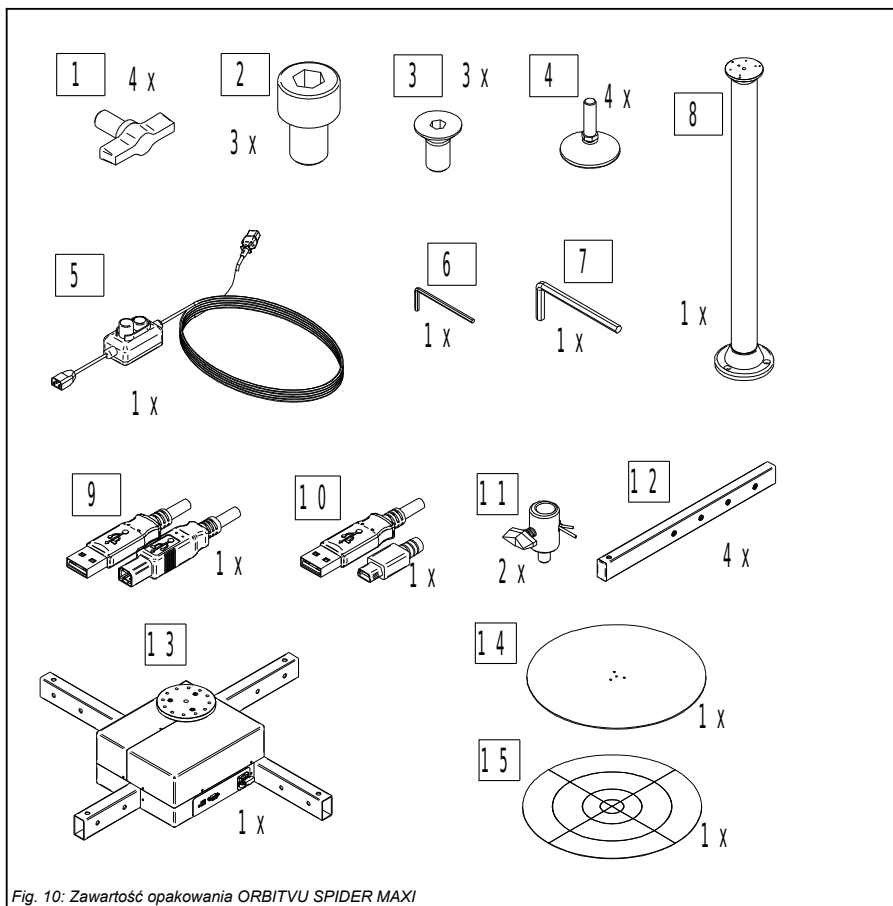
Fig. 10: Zawartość opakowania ORBITVU SPIDER MAXI

1. Wing knob M8 – 4 pcs
2. Column screw M8x12 – 3 pcs
3. Table screw M5x10 – 3 pcs
4. Feet – 4 pcs
5. Power supply cable with safety switch, 5 m – 1 pcs
6. M5 allen key – 1 pcs
7. M8 allen key – 1 pcs
8. Column – 1 pcs
9. USB cable for ORBITVU SPIDER, 5m – 1 pcs
10. USB cable for your camera, 5m – 1 pcs
11. 16mm adapter – 2 pcs
12. I-shaped legs – 4 pcs
13. ORBITVU SPIDER base – 1 pcs
14. 75 cm aluminium table – 1 pcs
15. White background with markers – 1 pcs
16. DVD containing ORBITVU EDITOR software and manuals

Installation (see Fig. 12)

1. For each I-shaped leg (12) attach foot (4)

2. Insert I-shaped lags to ORBITVU SPIDER base tubes, as shown in Fig. 12. Lock with wing knobs (1).

3. Use screws (2) and allen key (7) to attach column (8) to ORBITVU SPIDER base

4. Use screws (3) and allen key (6) to attach table (8) to the column

5. Put the white background on table top (15)

6. Level ORBITVU SPIDER using bubble levellers and screwing/unscrewing feet (Fig. 6.- 3).

Attaching transparent table – optional accessory (see Fig. 11)

Attach the table as described above in p. 3. but use supplied screws M5x16.

WARNING! Max. load for transparent table is limited to 10 kg
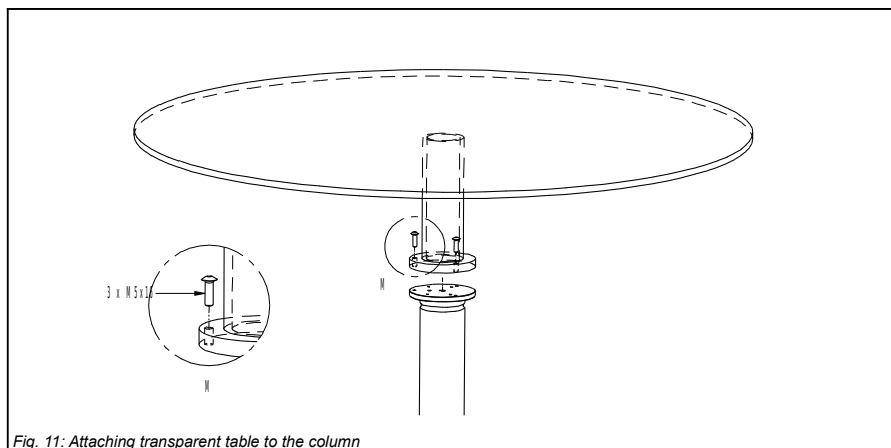
Fig. 11: Attaching transparent table to the column

Fig. 12: ORBITVU SPIDER MIDI assembly

ORBITVU SPIDER rail ceiling system set – optional accessory

ORBITVU SPIDER can be assembled on your rail ceiling system with optional accessory (code 209A1)

WARNING! Before assembly make sure that your rail ceiling configuration is capable of supporting additional load.
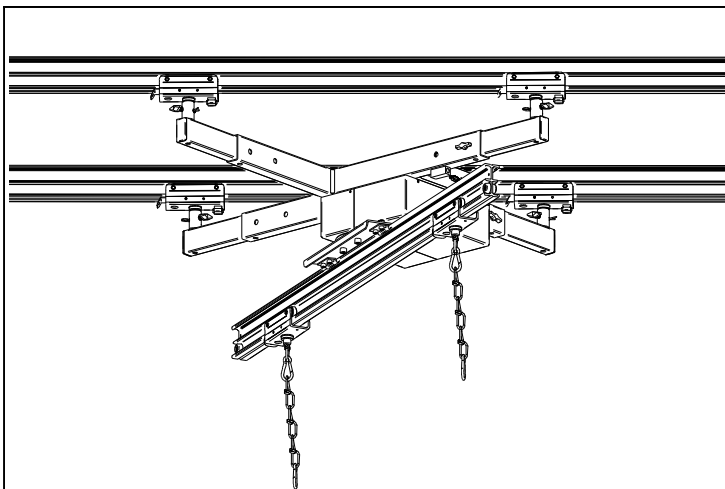
Fig. 13: ORBITVU SPIDER hanging on rail ceiilng system

Fig. 14: Package contents

Fig. 15: Assembly 16 mm adaptors

Fig. 16: Hanging support installation

Fig. 17: Fix ORBITVU SPIDER to rail carriages using 16 mm adaptors

Fig. 18: Attach hanging support

Connections

Fig. 19: Front panel
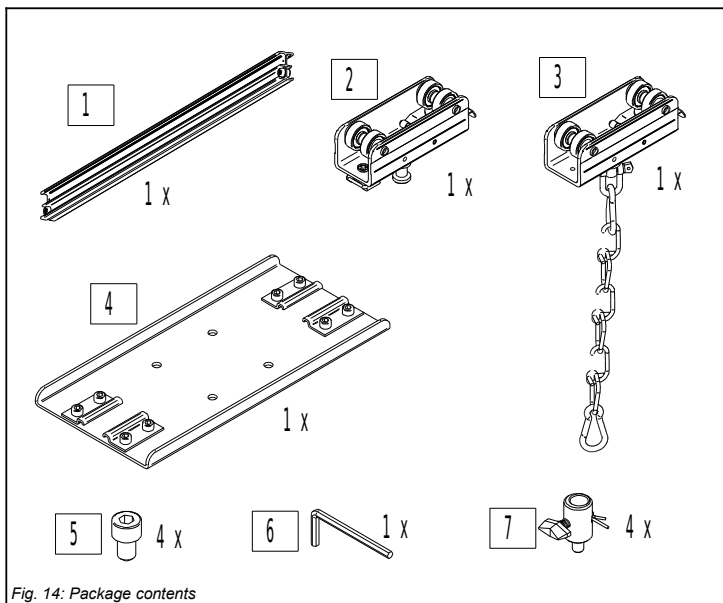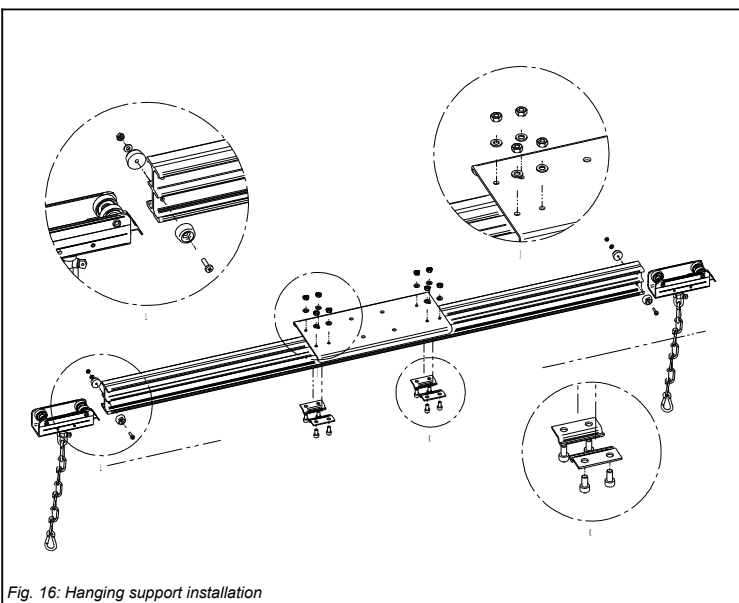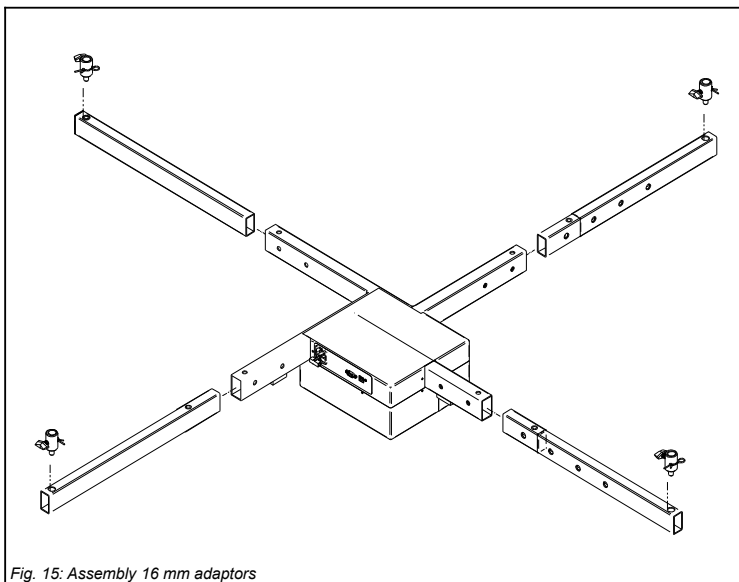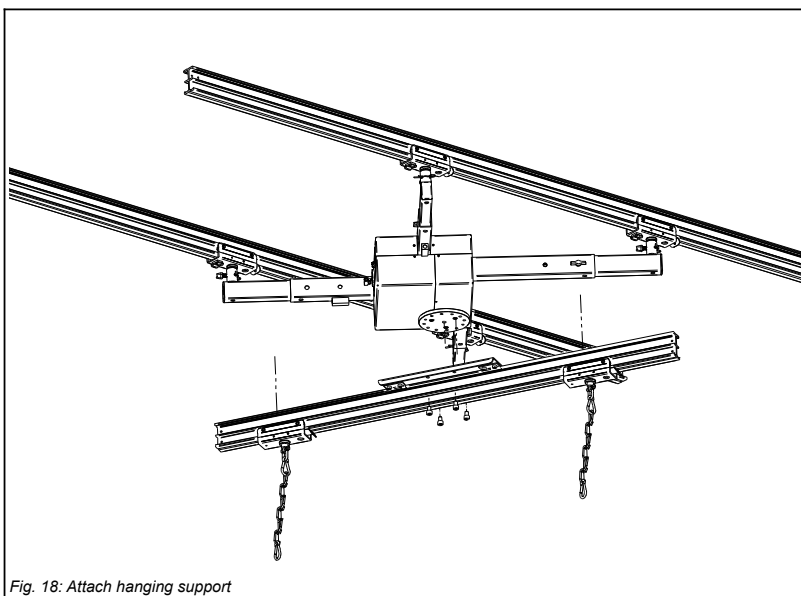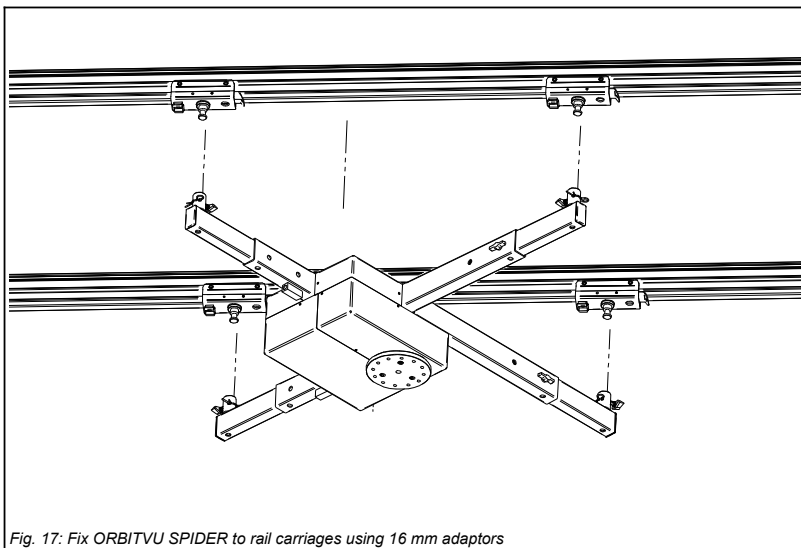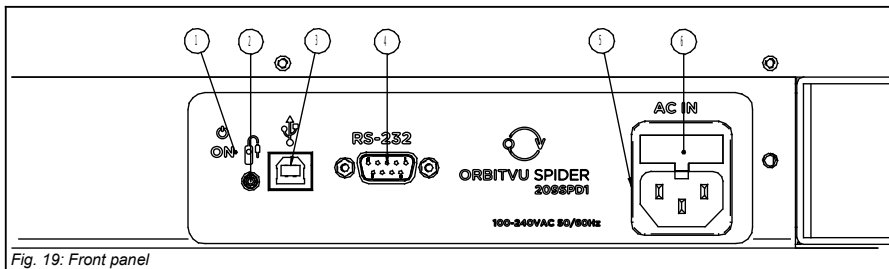
1. Power supply indicator
2. 2.5 mm sub mini stereo shutter release cable connector
3. USB – B socket
4. RS – 232 connector – for service only
5. Power supply connector
6. Fuse socket

Standard configuration – ORBITVU SPIDER and camera both connected to PC with USB

Fig. 20: Standard configuration
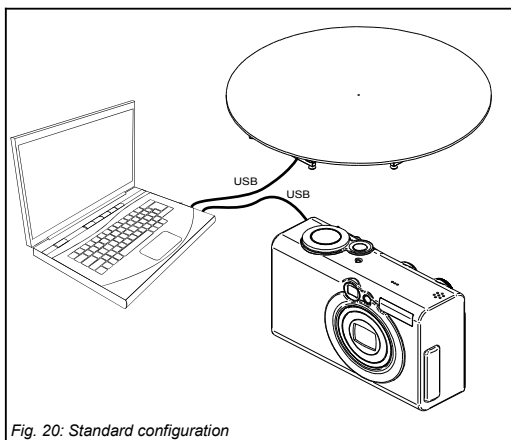
In standard configuration both ORBITVU SPIDER and the camera are connected to MAC or PC. It is recommended configuration, as ORBITVU EDITOR software will control both and images are automatically downloaded from camera to PC. To use this configuration, your camera must be compatible with ORBITVU EDITOR. You can find updated compatibility chart on http://www.orbitvu.com

Shutter release cable configuration
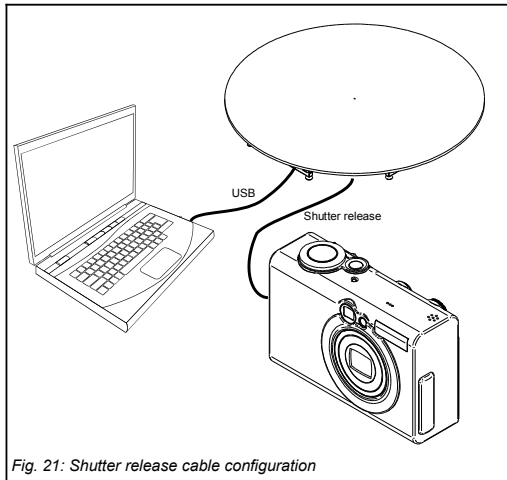
Fig. 21: Shutter release cable configuration

In shutter release cable configuration ORBITVU SPIDER is connected to MAC or PC with USB, while the camera is connected directly ORBITVU SPIDER with shutter release cable. ORBITVU EDITOR software will control ORBITVU SPIDER, but shutter will be released by ORBITVU SPIDER. No images are automatically downloaded to PC. Use this configuration, if your camera is not compatible with ORBITVU EDITOR. You can find updated compatibility chart on http://www.orbitvu.com

Power supply

WARNING! Before connecting power supply, makes sure that voltage in your socket is compatible with ORBITVU SPIDER power supply specifications. You can find details in this manual, or on the label on the side of the ORBITVU SPIDER base.

For your safety ORBITVU SPIDER is supplied with special power supply cable equipped with safety switch (Fig. 22 - 2) and power on switch (Fig. 22 - 3). To switch the unit on/off use no. 3 switch. When ORBITVU SPIDER is powered, its power indicator will lit continuously (Fig. 19 - 1).

In case of emergency you can quickly switch of the unit pressing switch no. 2. To reset the switch, rotate it in clockwise direction.

Switch ORBITVU SPIDER off, if you do not use it. Even if not working, it is consuming significant amount of power for breaking the motor.

WARNING! For safety reasons, always keep the safety switch in visible and easily accessible position. Do not use other power supply cables to power ORBITVU SPIDER.

Fig. 22: Power supply cable with safety switch
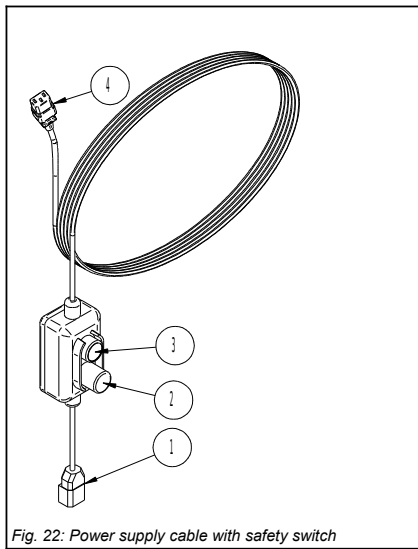
Fuse exchange

You can find the fuse inside power supply connector socket. To open the socket, slide it out using screwdriver or similar tool. Inside the socket you should find two fuses: working one (Fig. 23 - 1) and spare one (Fig. 23 - 2).

WARNING! Always exchange the fuse for a fuse with the same parameters – you can find details on the label on the side of the base.

Fig. 23: Fuse exchange
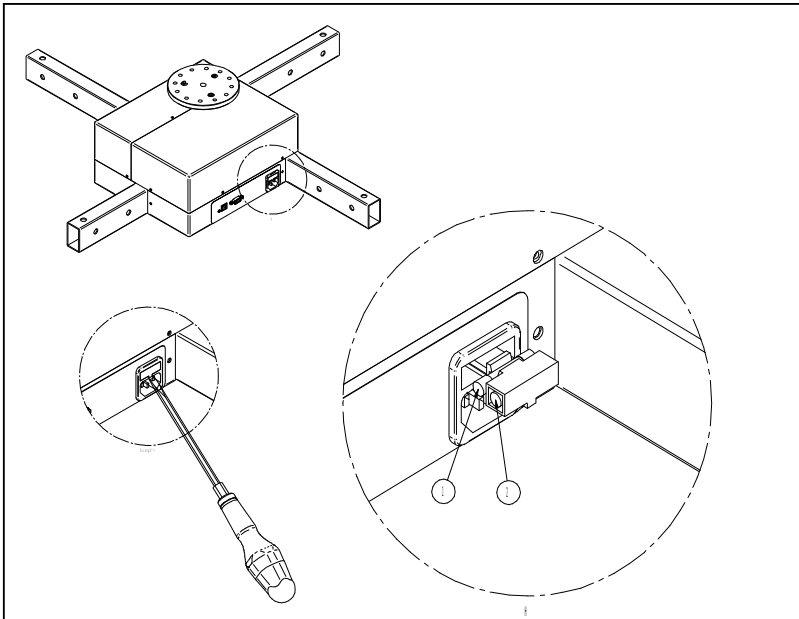
Working with ORBITVU SPIDER

You control ORBITVU SPIDER using ORBITVU EDITOR software – supplied on separate DVD. You can find more details inside EDITOR manual.

ORBITVU SPIDER firmware upgrade

You can upgrade ORBITVU SPIDER firmware (software inside the SPIDER) with ORBITVU EDITOR. You can find more details inside EDITOR manual.

Technical specifications

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Max central load ORBITVU MAXI ..............................................................250 kg
Max central load ORBITVU MIDI ................................................................40 kg
Max central load ORBITVU MIDI with transparent table..............................10 kg
Max. load for hanging configuraton.............................................................20 kg
Total weight ORBITVU MAXI.......................................................................61 kg
Total weight ORBITVU MIDI........................................................................25 kg
Total weight hanging konfiguration..............................................................22 kg
Dimensions ORBITVU MAXI.........................................................180×180x22 cm
Dimensions ORBITVU MIDI.........................................................140x140x90 cm
Power supply.......................................................100-230VAC 50/60Hz
Power consumption (max)............................................................................75W
Power consumption (typical)........................................................................40W
Power consumption (standby).......................................................................18W
Fuse specification....................................................................................T1.2A
Position accuracy...................................................................... better than 0.1°
Operation temperature range...............................................................10-40ºC
Max. operational humidity (rel. non condensing)...........................................95%
Acousic noise (max.)....................................................................................60dB
Nominal torque........................................................................................12 Nm
Connectors:
      Power supply .....................................................IEC 250VAC max
      Camera shutter release.........................................2.5 mm stereo
      PC Control.....................................................................USB typu B
      Service connector..............................................................RS-232
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Safety precautions and notes

- Make sure safety switch is always in visible and easily accessible place

- Do not try to use the unit, until it is completely assembled

- Do not use the unit for any other purpose than 360° photography

- Keep away from liquids

- Do not exceed maximal load specification

- Do not try to use the unit when it is broken

- ORBITVU SPIDER does not require special maintenance , but keep it clean and it will serve you for long time

Disposal of Waste of Electric and Electric Equipent (WEEE) and meaning of the wheeled bin symbol (applied in EU)

In 2002, the European Union introduced the Directive on Waste Electrical and Electronic Equipment (WEEE). The main aim of the Directive is to ensure that WEEE is collected and treated separately. WEEE is a vast source of raw materials- letting this potential source of such materials go to waste is unacceptable. If equipment is collected separately, it can be recycled and up to 85 to 90% of the equipment can be reused as new material, saving the use of virgin raw materials and energy of producing these.

For the above reasons, VENTIS expects end-users to dispose of the material in an environmentally friendly way, being separate collection and treatment.
Electrical and Electronic Equipment is labeled with the following "crossed out wheeled bin" symbol indicating that the equipment should be disposed of, by the end-user, separate from other types of waste. End-users should contact their dealer/distributor or our company on disposal, collection and recycling options in their country.

CE DECLARATION OF CONFORMITY

Manufacturer's name: ZPUH Ventis s.c. T. Bochenek, J. Bochenek

Manufacturer's address: Ul. Sienkiewicza 48
42-600 Tarnowskie Góry
Poland

Declares that product:

Product name: ORBITVU SPIDER

Product type: 209H-S1

Complies with the requirements of the following EU directives:
- Electromagnetic compatibility - EMC 2004/108/WE
- Low voltage - LVD 2006/95/WE
- Safety of machines – 98/37/EC

and carries "CE" mark accordingly.

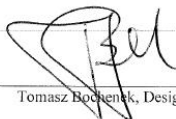The product has been tested and found to comply to the following harmonized standards:

EMC (emmission) :   EN61000-6-3:2007
PN-EN 55022:2006 class B (20-230MHz 30dBuV/m,
230-1000MHz 37dBuV/m @ 10mt)

EMC (immunity)   EN 61000-6-1:2007:
IEC 61000-4-2:1999+A2:2003 (ESD 4kV CD, 8kV AD)
IEC 61000-4-3:2006 (80MHz – 1000MHz, 3V/m, AM 80% 1KHz)
IEC 61000-4-4:2005 (+/- 1kV PC power; +/- 0,5kV cable)
IEC 61000-4-6:2007 (IEC 61000-4-6:2007)

Low voltage: EN 60950-1:2006

Safety of machines: EN ISO 12100-2:2003

Tarnowskie Góry, 01.10.2010

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Tomasz Bochenek, Design Head